



RF Cable Assemblies Technical Data Sheet

ET24934

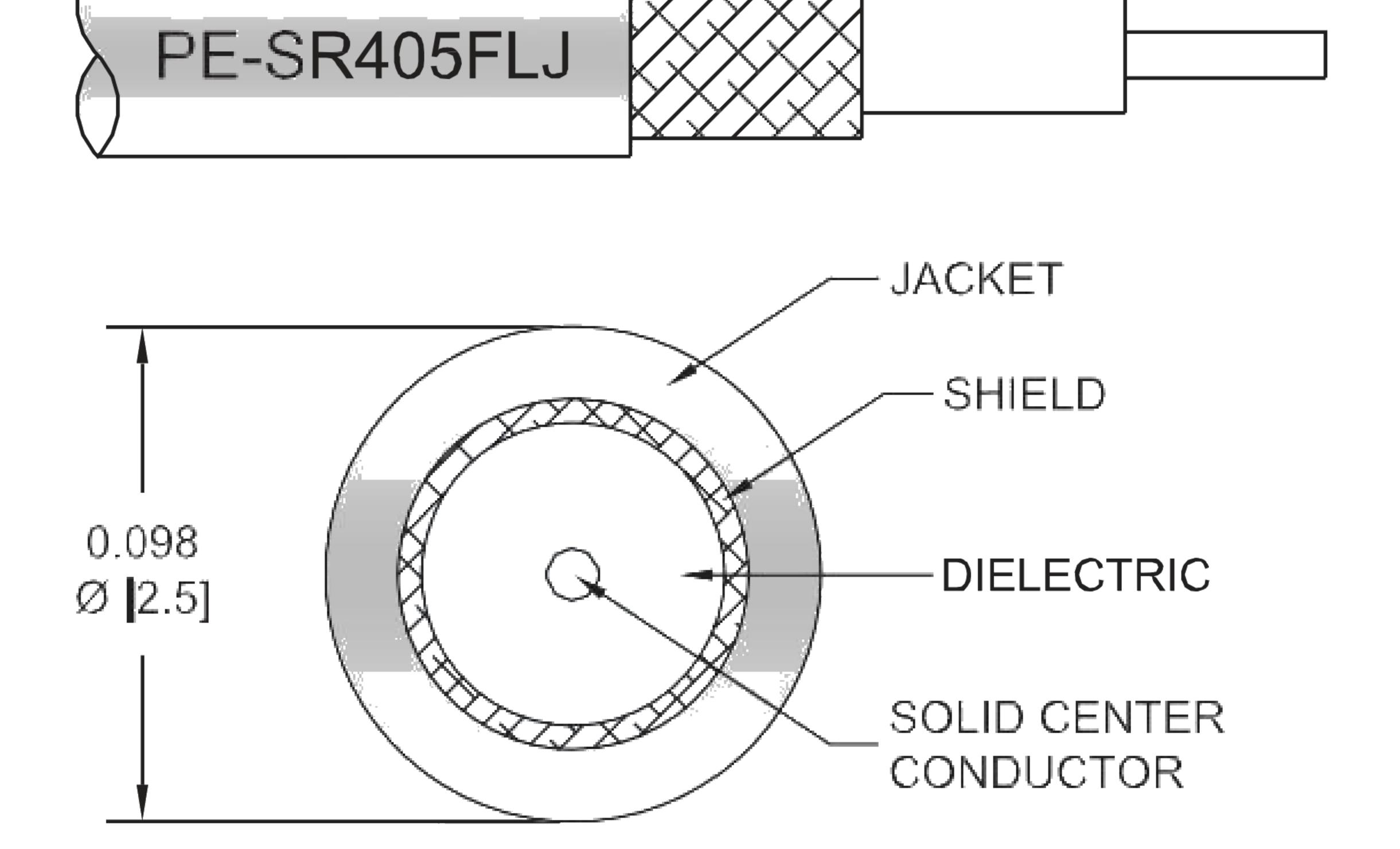
Configuration

Connector 1: MCX Plug Right Angle

Connector 2: SMA Male
Cable Type: ET38323

Features

- Max Frequency 4 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket
- 500 Mating Cycles



Applications

General Purpose

Laboratory Use

Description

Ebeestock's ET24934 MCX plug right angle to SMA male 100 cm cable using ET38323 coax is part of our full line of RF components available for same-day shipping. Ebeestock's formable RF cable assemblies provide an alterna- tive to costly pre-formed semi-rigid assemblies since they are hand formable. This Ebeestock MCX to SMA cable assembly has a plug to male gender configuration with 50 ohm formable ET38323 coax. The ET24934 MCX plug to SMA male cable assembly operates to 4 GHz. The right angle MCX interface on the ET38323 cable allows for easier connections in tight spaces.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: MCX Plug Right Angle to SMA Male Cable 100 cm Length Using ET38323 Coax ET24934





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ET24934

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|---------------|---------|--------------------|
| Frequency Range | DC | | 4 | GHz |
| VSWR | | | 1.5:1 | |
| Velocity of Propagation | | 69.5 | | % |
| RF Shielding | 100 | | | dB |
| Group Delay | | 1.43 [4.69] | | ns/ft [ns/m] |
| Capacitance | | 29 [95.14] | | pF/ft [pF/m] |
| DC Resistance Inner Conductor | | 65.7 [215.55] | | Ohms/1000ft [Ohms/ |
| Km] | | | | |
| DC Resistance Outer Conductor | | 10.2 [33.46] | | Ohms/1000ft [Ohms/ |
| Km] | | | | |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|-------|-------|----|-------|
| Frequency | 0.5 | 1 | 2.5 | 4 | | GHz |
| Insertion Loss (Max.) | 0.791 | 1.037 | 1.434 | 1.835 | | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector Loss

Mechanical Specifications

Cable Assembly

Length* 39.37 in [100 cm]

Cable

Cable Type
Impedance
Inner Conductor Type

ET38323

Solid

Inner Conductor Material and Plating Copper Clad Steel, Silver

Outer Conductor Material and Plating Tinned Copper Composite Braid

Jacket Material FEP, Black

Jacket Diameter 0.105 in [2.67 mm]

One Time Minimum Bend Radius 0.5 in [12.7 mm]

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ET24934

Repeated Minimum Bend Radius

0.787 in [19.99 mm]

Connectors

| Connector 1 | Connector 2 | |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------|--|
| MCX Plug Right Angle | SMA Male | |
| MIL-C-39012 | | |
| 50 Ohms | 50 Ohms | |
| 500 | 500 | |
| Brass, Gold over Nickel | Beryllium Copper, Gold | |
| 30 µin minimum | ASTM-B488 | |
| PTFE | PTFE | |
| Brass, Gold over Nickel | Beryllium Copper, Gold | |
| 10 μin minimum | ASTM-B488 | |
| | Steel | |
| | 7 in-lbs [0.79 Nm] | |
| | MCX Plug Right Angle MIL-C-39012 50 Ohms 500 Brass, Gold over Nickel 30 µin minimum PTFE Brass, Gold over Nickel | |

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range

-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





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ET24934

How to Order

Example: ET3W07396-12 = 12 inches long cable

ET24934 = 100 cm long cable

MCX Plug Right Angle to SMA Male Cable 100 cm Length Using ET38323 Coax from Ebeestock Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.ebeestock.com/mcx-plug-right-angle-to-sma-male-cable-12-inch-length-using-pe-sr405flj-coax-0024928

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Ebeestock reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Ebeestock does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Ebeestock does not assume any liability arising out of the use of any part or documentation.

